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... fixed backbone material enters into the expression for the **pom-pom** arm relaxation ... of timescales: Before proceeding to the slower **viscoelastic** modes originating ...[Cited by 205](#) - [Related Articles](#) - [Web Search](#)
Stability analysis of viscoelastic polymer melt flows

FPT Baaijens, AM Grillet, ACB Bogaerds, GWM Peters - Simulation of Material Processing: Theory, Methods and ..., 2001 - books.google.com

... method to analyze the stability of **viscoelastic** flows ... real-istic description of the **visco-elastic** contributions ... predictive capabilities of the **Pom- pom** model,[6 ...[Related Articles](#) - [Web Search](#)
Stability analysis of polymer shear flows using the eXtended Pom-Pom constitutive equations - all 4 versions »

ACB Bogaerds, AM Grillet, GWM Peters, FPT Baaijens - Journal of Non-Newtonian Fluid Mechanics, 2002 - Elsevier

... both planar shear flows. Author Keywords: Planar **viscoelastic** shear flows; Stability analysis; **Pom-Pom** constitutive equations. ...[Cited by 11](#) - [Related Articles](#) - [Web Search](#)
Further considerations on steady recirculating flows involving non-Newtonian fluids - all 5 versions »

G Chaidron, F Chinesta - Journal of Non-Newtonian Fluid Mechanics, 2002 - Elsevier

... (9). 1.3. Third example: the **viscoelastic Pom-Pom** model. In the recent**Pom-Pom viscoelastic** model, as described in [10], the extra ...[Cited by 3](#) - [Related Articles](#) - [Web Search](#)
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... stresses in **injection** moulding for the prediction of shrinkage ... Keywords: **Injection** moulding; Residual stresses; Shrinkage; Warpage; Fibre orientation ...

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SF Walsh - Journal of Reinforced Plastics and Composites, 1993 - jrp.sagepub.com

... 769 Journal of Reinforced Plastics and Composites SF Walsh **Shrinkage and Warpage Prediction for Injection Molded Components** http ...

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H Xu, DO Kazmer - International Polymer Processing, 1999 - kazmer.uml.edu

... Page 2. Abstract The cooling time of an **injection** molded part directly affects the production cost and ... simultaneously ensuring **injection** molded part quality. 1 ...

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[PDF] High accuracy shrinkage and warpage prediction for injection molding - all 2 versions »

P Kennedy, R Zheng - Proceedings of the International Conference Society of ..., 2002 - 4spe.org

Page 1. HIGH ACCURACY SHRINKAGE AND WARPAGE PREDICTION FOR INJECTION MOLDING

Peter Kennedy (1) Rong Zheng (2) (1) Moldflow Corporation ...

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Simulation of the injection moulding process--a practical validation

P Glendenning - Polymer Process Engineering 97, 1997 - csa.com

... and a comparison and practical validation of **shrinkage and warpage prediction** software. ...

of the factors which affect polymers prior to **injection** was identified ...

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Injection molding: crystalline resins finally yield to accurate shrink and warp simulation

J Ogando - Plastics Technology(USA), 1998 - csa.com

Injection molding: crystalline resins finally yield to accurate shrink ... characterization method promises to cut the **shrinkage and warpage prediction** error for ...

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Shrinkage predictions of injection moulded parts in semi-crystalline polymers: experimental ... - all 2 versions »

A Gordillo, D Ariza, M Sanchez-Soto, MLI MasPOCH - Emerging Technologies and Factory



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[CITATION] **Relevance of crystallisation kinetics in the simulation of the injection molding process**

R Pantani, V Speranza, G Titomanlio - International Polymer Processing, 2001

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Orientation and Crystallinity Measurements in Injection Moulded Products - all 2 versions »

G Lamberti, GWM Peters, BAG Schrauwen - Polymer Bulletin, 2003 - Springer

... to be strong enough to cause the **crystallization** to achieve ... the **injection**-moulded samples, despite their **relevance** for structure ... 185:327 7. Pantani R, Speranza V ...

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[PDF] **Shrinkage and ejection forces in injection moulded products**

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EXCIMER LASER INDUCED PERMANENT ELECTRICAL CONDUCTIVITY AND NANOSTRUCTURES IN POLYMERS

R Sauerbrey, HM Phillips - Excimer Lasers, 1994 - books.google.com

... $A = V [2\sin\theta]$ was set to 0.9° m. The output of an **injection** controlled KrF ... 1. **Kinetics** of polymer photoablation In a recent past a number of ablation curves ...

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 GA Arzoumanidis, KM Liechti - *Mechanics of Time-Dependent Materials*, 2003 - Springer ... and Kim (1990) developed a technique for determining dynamic Poisson's ratio based on barreling of compression specimens and a linear **finite element** analysis ...

 Cited by 11 - [Related Articles](#) - [Web Search](#)
[\[PS\] Internal variable models of viscoelasticity with fractional relaxation laws - all 3 versions »](#)

 A Hanyga - *ASME 2003 International Design Engineering Technical ...*, 2003 - ifjf.uib.no Page 1. Proceedings of DETC'03 2003 Design Engineering and Technical Conferences September 2-6, 2003, Chicago, Illinois USA INTERNAL ...

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 PR SCHUNK, MA HEROUX, RR RAO, TA BAER, SR SUBIA, ... - 2002 - osti.gov ... **element** method ... 2, but for **viscoelastic constitutive equations** it is expedient to solve the constitutive equation separately with a mixed method, as discussed ...

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 W Xiaoming, S Yapeng - *Acta Mechanica Solida Sinica*, 1994 - Springer

 ... In the present research, the linear **viscoelastic constitutive equations** are introduced first with the ... $RaY, = f. a, (Juz) 9 [au2(t \S ,at) -- ,au2(t)]n2ds \S O[(a ...$
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 C Verdier - *Computational and Mathematical Methods in Medicine*, 2003 - informaworld.com

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 Cited by 15 - [Related Articles](#) - [Web Search](#)
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 C Verdier - *Journal of Theoretical Medicine*, 2003 - ingentaconnect.com

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TCB McLeish, RG Larson - Journal of Rheology, 1998 - link.aip.org

... in the integral equation for the **orientation tensor** [Eq. ... 134. Larson, RG, "A critical comparison of **constitutive** equations for **polymer** melts," J ...

[Cited by 205](#) - [Related Articles](#) - [Web Search](#)

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WMH Verbeeten, GWM Peters, FPT Baaijens - Journal of Rheology, 2001 - link.aip.org

... Here, the **constitutive** behavior for a single mode of ... to get the backbone tube **orientation tensor** S . is ... of the influence of the surrounding **polymer** chains on ...

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A simple constitutive equation for entangled polymers with chain stretch - all 2 versions »

G Ianniruberto, G Marrucci - Journal of Rheology, 2001 - link.aip.org

... integral equation for the **orientation tensor** (bold S ... G. Ianniruberto, "Integral and differential **constitutive** equations for entangled **polymers** with simple ...

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... low density polyethylene melt rheology in elongational and shear flows with "pom-pom" constitutive ... - all 7 versions »

NJ Inkson, TCB McLeish, OG Harlen, DJ Groves - Journal of Rheology, 1999 - link.aip.org

... the details of the molecular **constitutive** equation derived ... since they behave like star **polymer** arms). ... of the crossbar; the **orientation tensor**, which measures ...

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Integral and differential constitutive equations for entangled polymers with simple versions of CCR ... - all 3 versions »

G Marrucci, F Greco, G Ianniruberto - Rheologica Acta, 2001 - Springer

... by the ensemble average of the **orientation tensor** uu to ... Upper curves are from the **constitutive** equations of ... and Baek (1994), for a **polymer** concentration of 88 ...

[Cited by 23](#) - [Related Articles](#) - [Web Search](#)

A constitutive analysis of uniaxial, equibiaxial and planar extension of a commercial linear high- ... - all 6 versions »

MH Wagner, P Ehrecke, P Hachmann, J Meissner - Journal of Rheology, 1998 - link.aip.org

... extensional flows of polyisobutylene," "A **constitutive** analysis of ... The role of the **orientation tensor** in the rheology of flexible **polymers**," Macromol ...

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The Considère condition and rapid stretching of linear and branched polymer melts - all 7 versions »

GH McKinley, O Hassager - Journal of Rheology, 1999 - link.aip.org

... from equilibrium to the deformed state at t . The **orientation tensor** is, therefore ...



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M Pasquali, LE Scriven - Journal of Non-Newtonian Fluid Mechanics, 2002 - Elsevier
... Author Keywords: Free surface flows; **Polymer** solutions; **Conformation tensor**;
Viscoelastic flows; Flow type classification; Finite elements. ...

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[PDF] Direct numerical simulation of the turbulent channel flow of a **polymer solution - all 4 versions »**

R Sureshkumar - Physics of Fluids, 1997 - wuche.wustl.edu
... suitability of nonlinear dumbbell models in describing the **polymer** con- formation ...
the macromolecule are de- scribed macroscopically by a **conformation tensor**, c ...

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E De Angelis, CM Casciola, R Piva - Computers and Fluids, 2002 - Elsevier
... ratio between the relaxation time of the **polymer** chain s and the characteristic
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VG Mavrantzas, HC Öttinger - Macromolecules, 2002 - pubs.acs.org
... outlined here for three different viscoelastic fluid models: the single- and
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Stretching of polymers in a turbulent environment - all 9 versions »

B Eckhardt, J Kronjäger, J Schumacher - Computer Physics Communications, 2002 - Elsevier

... for the variables v_i , c_{ij} and p . The advantage of writing the Oldroyd-B equation
in terms of the **conformation tensor** c instead of the **polymer** stress tensor ...

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... simulation of **polymer melt elasticity: calculation of the free energy of an oriented **polymer** melt - all 4 versions »**

VG Mavrantzas, DN Theodorou - Macromolecules, 1998 - pubs.acs.org
... method is developed for predicting the elasticity of a **polymer** melt through ... is the
temperature, is the mass density, and , the **conformation tensor**, is defined ...

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Modeling of the rheology and flow-induced concentration changes in **polymer solutions - all 6 versions »**

VG Mavrantzas, AN Beris - Physical Review Letters, 1992 - APS
... A nonisotropic form dependent on the **polymer conformation tensor** Q might better
represent the **polymer**-solvent interactions, espe- cially far from equilibrium. ...



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M Pasquali, LE Scriven - Journal of Non-Newtonian Fluid Mechanics, 2002 - Elsevier
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inflow boundary conditions on the **conformation tensor** (or elastic ...

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the **polymer** contribution to ... we need to supply a **constitutive** relationship for ...

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[... model for surface effects on chain conformation and rheology of **polymer** solutions. I. General ... - all 4 versions »](#)

VG Mavrantzas, AN Beris - The Journal of Chemical Physics, 1999 - link.aip.org
... set of transport and **constitutive** equations is ... macroscopic variables include the
polymer chain concentration ... velocity, and the **conformation tensor** (defined as ...

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[Simulation of viscoelastic flows using Brownian configuration fields - all 5 versions »](#)

MA Hulsen, APG van Heel, BHAA van den Brule - Journal of Non-Newtonian Fluid Mechanics, 1997 - Elsevier

... Finally, the **conformation tensor** field follows from ... space Φ and continuous bilinear
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FPT Baaijens - Rheologica Acta, 1991 - Springer

... The **flow-induced stress** upon solidification is denoted σ The **constitutive equation** (4.11) can be simplified considerably ... normal stresses in a **polymer melt** is ...

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Numerical simulation of thermally induced stress and warpage in injection-molded thermoplastics - all 7 versions »

Y Gu, H Li, C Shen - Advances in Polymer Technology, 2001 - doi.wiley.com

... larger than the frozen-in **flow-induced stress**, $O(10^{-3})$ It is assumed that the cooling **polymer** behaves as an ... The **constitutive equations** are given as follows : 10 ...

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Postfilling analysis of viscoelastic polymers with internal structure parameter - all 3 versions »

X Huang, C Zhou - Polymer Engineering and Science(USA), 1999 - doi.wiley.com

... We intro- duce a new **constitutive** model with internal structure parameter into the system, by which microstructural changes of **polymer melt** can be predicted ...

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Warpage prediction of optical media - all 7 versions »

B Fan, DO Kazmer, WC Bushko, RP Theriault, AJ ... - Journal of Polymer Science, Part B, Polymer Physics, 2003 - doi.wiley.com

... flow simulation with a viscoelastic **constitutive** model. ... of residual stresses: 2 **flow-induced stress** and thermally ... uml.edu) Journal of Polymer Science: Part B ...

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Prediction of residual flow and thermoviscoelastic stresses in injection molding - all 4 versions »

KK Kabanemi, A Ait-Kadi, PA Tanguy - Rheologica Acta, 1995 - Springer

... ie, the thermodynamic equilib- rium temperature, as function of the **polymer thermal** (14 ... basis, one ob- tains the general form of the **constitutive equations** for ...

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Numerical Simulation for Effects of Injection Mold Cooling on Warpage and Residual Stresses - all 3 versions »

CY Shen, HM Li - Polymer-Plastics Technology and Engineering, 2003 - informaworld.com

... of magnitude larger than the frozen-in **flow-induced stress**. ... We assume that the cooling

polymer behaves as an ... The **constitutive equations** are given as follows: [9 ...

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SC Chen, YC Chen, HS Peng, LT Huang - Advances in Polymer Technology, 2002 - doi.wiley.com